



PATENT
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Wang et al.

Group Art Unit: unassigned

Application No. 09/636,246

Examiner: unassigned

Filed: August 10, 2000

For: POLISHING SYSTEM WITH
STOPPING COMPOUND AND
METHOD OF ITS USE

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**PENDING CLAIMS AFTER PRELIMINARY AMENDMENTS
DATED JANUARY 17, 2002**

1. A system for polishing one or more layers of a multi-layer substrate that includes a first metal layer and a second layer comprising (i) a liquid carrier, (ii) at least one oxidizing agent, (iii) at least one polishing additive that increases the rate at which the system polishes at least one layer of the substrate, (iv) at least one stopping compound with a polishing selectivity of the first metal layer:second layer of at least about 30:1, wherein the stopping compound is a cationically charged nitrogen containing compound selected from compounds comprising amines, imines, amides, imides, and mixtures thereof, and (v) a polishing pad and/or an abrasive.
2. The system of claim 1, wherein the liquid carrier is a nonaqueous solvent.
3. The system of claim 1, wherein the liquid carrier is water.
4. The system of claim 3, wherein the system comprises an abrasive suspended in the liquid carrier.
5. The system of claim 3, wherein the abrasive is fixed on the polishing pad.
6. The system of claim 3, wherein no abrasive is present in the system, and the polishing pad is a non-abrasive pad.
7. The system of claim 3, wherein at least one stopping compound is selected from compounds comprising primary amines, secondary amines, tertiary amines, quaternary